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The other three resolutions recommended to the consideration of the Society were on request again postponed to allow time for the members of the Society to become better acquainted with their tenor.

1. *Resolved*, That the members of the Society be invited to send to the Secretaries the names of notable discoverers in any branch of science, or the fine or useful arts, with the reasons for bestowal of medals for their discoveries.

2. *Resolved*, That such names and recommendations be placed for consideration in the hands of the President to report to the Society his verdict in favor of one or more of them if proper.

3. *Resolved*, That, in case no veto is placed by the Society on such verdict, there shall be a presentation of medals to the persons recommended by the President at a time and in a manner to be arranged by him.

And the meeting was adjourned.

Stated Meeting, Dec. 17, 1880.

Present, 10 members.

Vice-President, Mr. PRICE, in the Chair.

Mr. J. B. Townsend accepted by letter his appointment to prepare an obituary notice of the late Henry Wharton.

A letter respecting duplicates was received from H. B. Dawson, Morrisania, N. Y.

A circular was received from the Peabody Academy of Science, at Salem, Mass.

Donations for the Library were received from the Asiatic Society of Japan; the Berlin Academy; the Verein für Beröhrderung des Gewerbfleisses, Berlin; Zoologischer Anzeiger, Leipzig; Naturhistorisches Verein, Bonn; Revue Politique, Paris; Revista Euskara, Pamplona; Nature, the Nautical Almanac Office, and Dr. C. Wm. Siemens, London; R. Dublin Society; Yale College, and the American Journal, New Haven; Franklin Institute, Commissioners of the New Public Buildings, and Mr. Henry Phillips, Jr., Philadelphia; Hon. Lane S. Hart, State Printer, Harrisburg; Johns Hopkins University, Baltimore; U. S. Geo-

logical Survey of the Territories; and the Ministerio de Fomento, Mexico.

Two pieces of slag from the site of the earliest iron furnace in Virginia was presented to the cabinet by Mr. Phillips, for Mr. R. Alonzo Brock.

Prof. Cope was, on motion, permitted to withdraw for immediate publication elsewhere his communication on the Vertebrata of the Wind River Eocene beds, the principal features of which he described, and exhibited the lower jaw of *Bachyopsis hiscidens* in illustration of the extraordinary character of these fossils. Of 46 species studied, 26 species (and 3 genera) are new. The collection is specially important as placing the Wind River beds (hypothetically) between the Bridger beds above and the Wasatch beds below, types peculiar to each being found mingled in it.

Mr. Lesley read extracts from a letter from Mr. Andrew S. McCreath, Chemist in charge of the State Geological Laboratory at Harrisburg, giving an analysis of a *pure* dolomite exposure, in mass, in Franklin county.

HARRISBURG, Dec. 10, 1880.

"While selecting samples of the iron ores in the Mt. Alto district, Col. Wiestling showed me a limestone quarry or opening which, on one of your visits, you thought was partly unaltered blue carbonate of iron, with possibly 18 to 20 per cent. metallic iron. Samples were carefully selected—201 pieces for sample—and analysed with the following results :

| | |
|----------------------------|----------------------|
| Carbonate of lime..... | 51.743 |
| Carbonate of magnesia..... | 43.436 |
| Carbonate of iron..... | .665 = 0.321 % iron. |
| Alumina..... | .222 |
| Sulphate of lime..... | .046 |
| Phosphate of lime..... | .065 |
| Silica..... | 4.090 |
| | <hr/> 100.267 |

"Calculating the carbonates of lime and magnesia to 100 parts we get the following as compared with a true lithological dolomite :

| | Shiery Quarry, Mt. Alto. | Dolomite. |
|----------------------------|--------------------------|--------------|
| Carbonate of lime..... | 54.36 | 54.35 |
| Carbonate of magnesia..... | 45.64 | 45.65 |
| | <hr/> 100.00 | <hr/> 100.00 |

"I find this extremely interesting, for it is the only *true* dolomite I have yet found in such large quantity in this State."

Also notes by Prof. I. C. White, Asst. Geologist and Professor of Natural History in the University of West Virginia, stating his conclusions respecting the distribution of the members of the Conglomerate in Western Pennsylvania.

Mr. Lesley exhibited an index guage which he had had constructed by Messrs. Young, of Philadelphia, for the use of the Survey, and showed a small topographical model in wax which had been made by means of it.

The Treasurer read the report of the Committee on Finance.

On motion, the appropriations recommended by the Committee were passed.

The report of the Trustees of the Building Fund was read by the Treasurer.

On motion of Mr. Lesley, the Committee on Publication was authorized to issue the articles published in the Transactions, separately, or together, at their discretion.

And the meeting was adjourned.

Notes on the Place of the Sharon Conglomerate in the Palæozoic Series. By Prof. I. C. White.

(Read before the American Philosophical Society, Dec. 17, 1880.)

With regard to the place of this rock in the series, about which there has been much diversity of opinion among geologists, I have to say that my study of it and its associated rocks during the past season in this district,* as well as in Venango and Warren counties, to the east, and in the State of Ohio to the west, has dispelled the idea that I at one time entertained of the possibility of its being the Vespertine Conglomerate, or No. X of Rogers, and has confirmed me in the position that I took in my reports Q and QQ on Beaver and Lawrence counties, viz : that it is the true base of No. XII.

It may be of interest to state here the reasons which caused me to entertain such a possibility.

It happened that during my season's work in Mercer county in '78, I discovered a new limestone in the Mahoning river, only about 50' above the horizon of the Sharon Conglomerate, and nearly 100' below any limestone hitherto known in Western Pennsylvania. It was filled with fossils and some of them seemed to be related to Subcarboniferous types.

* These notes were written for the Report of Progress of the Survey in Erie and Crawford counties. J. P. L.